

FIG. 1

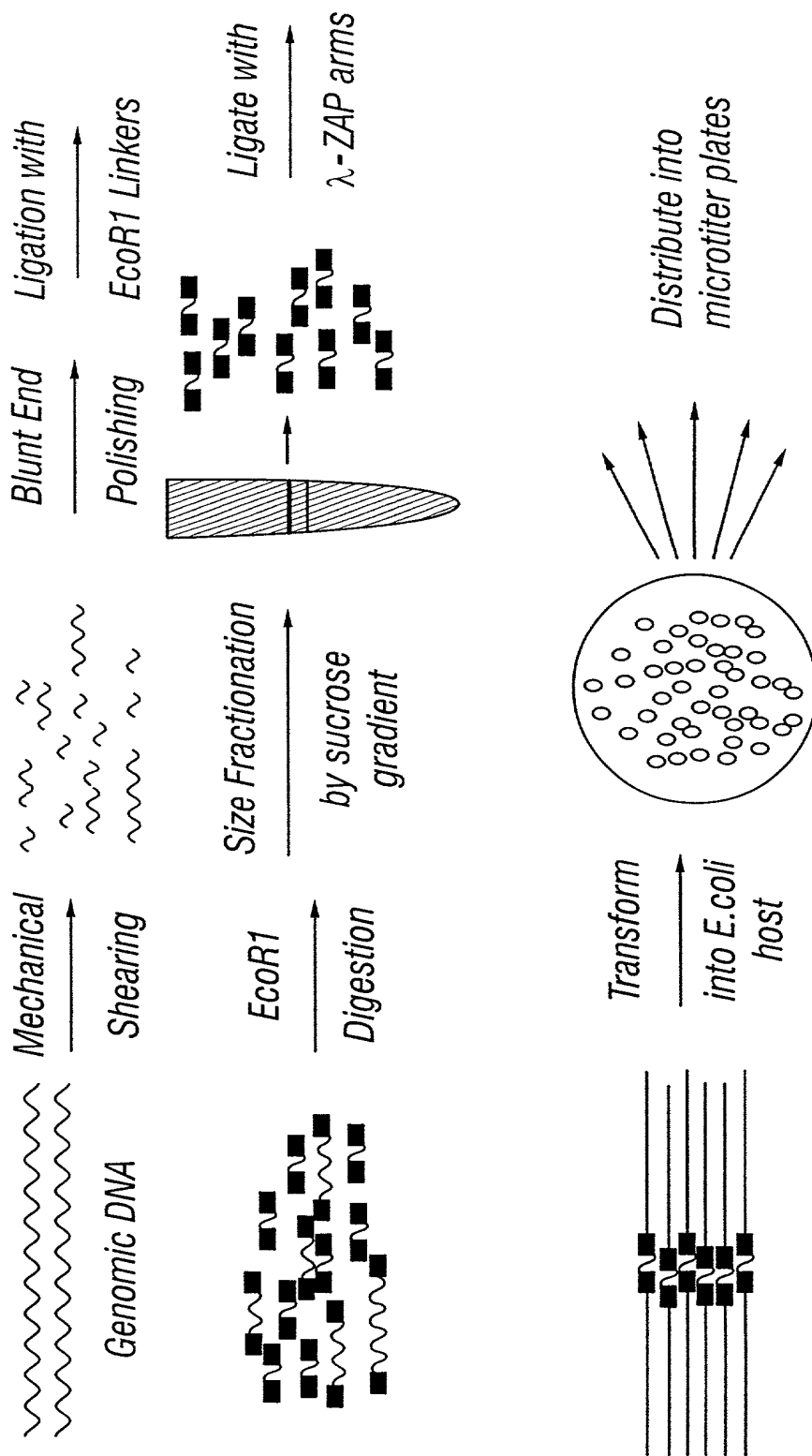


FIG. 2

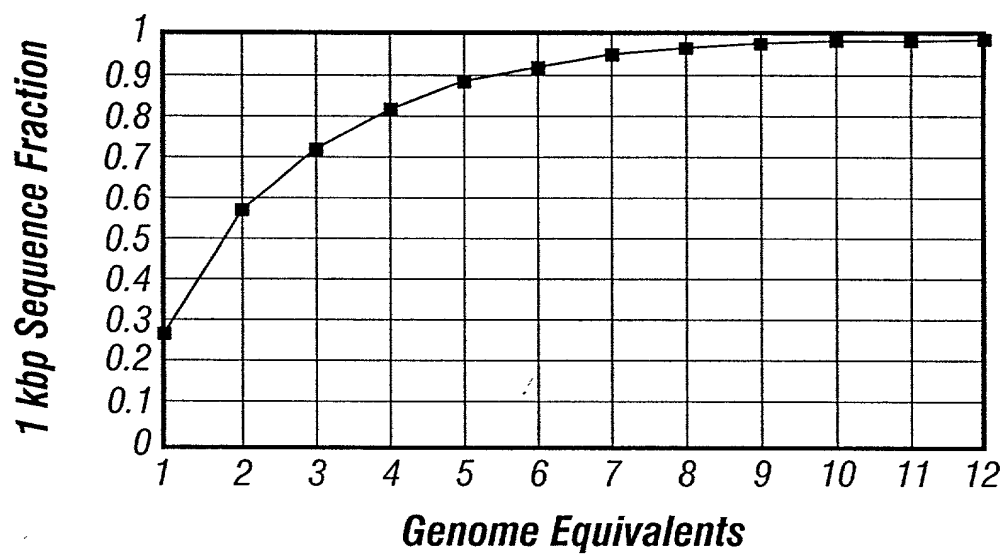
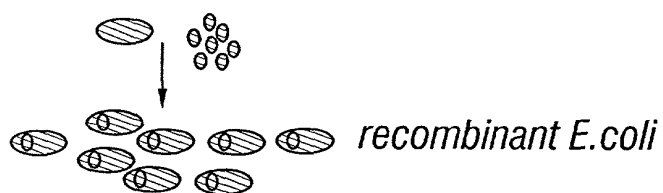


FIG. 3

Cell sorting to screen for recombinant
enzymes

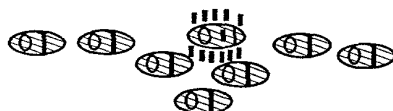
excise λ library into *E.coli*



add enzyme substrate



recombinant enzyme
cleaves substrate
to make cells fluorescent



sort

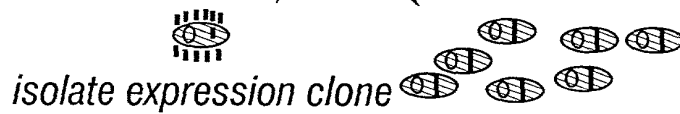


FIG. 4

β -Gal clone with different substrates

- *cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.*
- *bright spot indicates staining of cells*

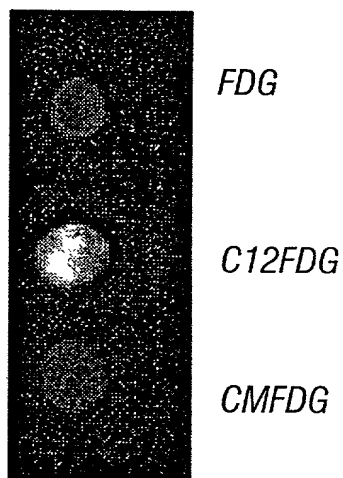


FIG. 5

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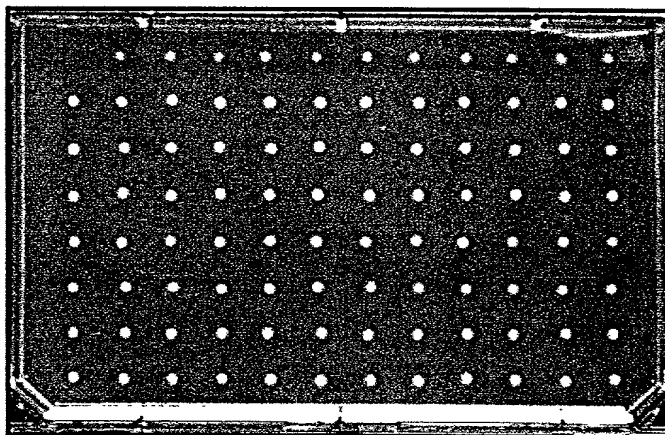


FIG. 6

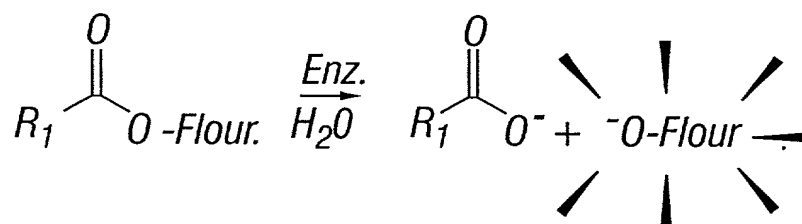


FIG. 7



FIG. 8

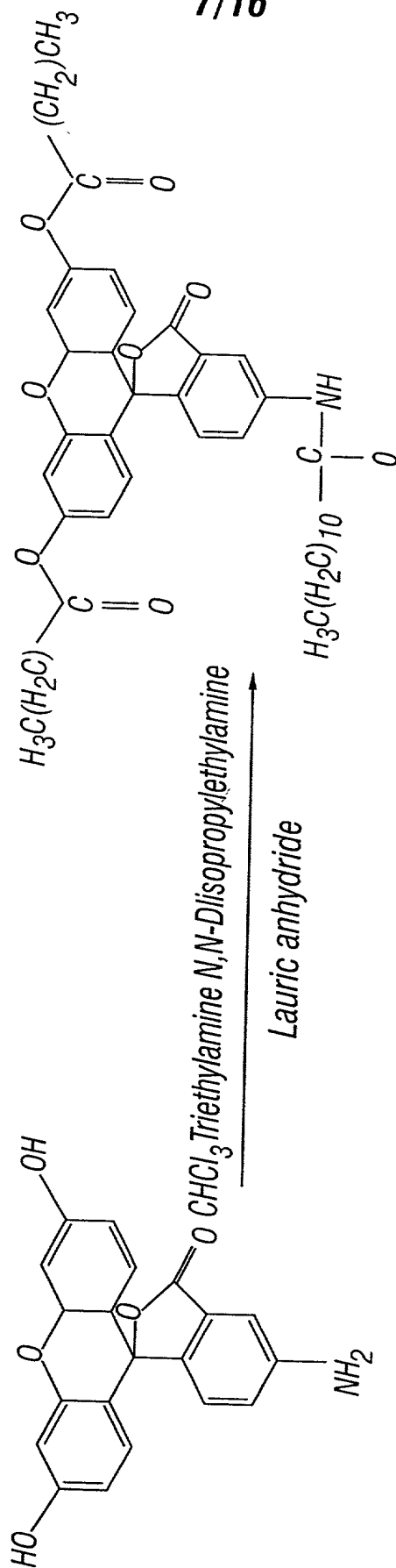


FIG. 9

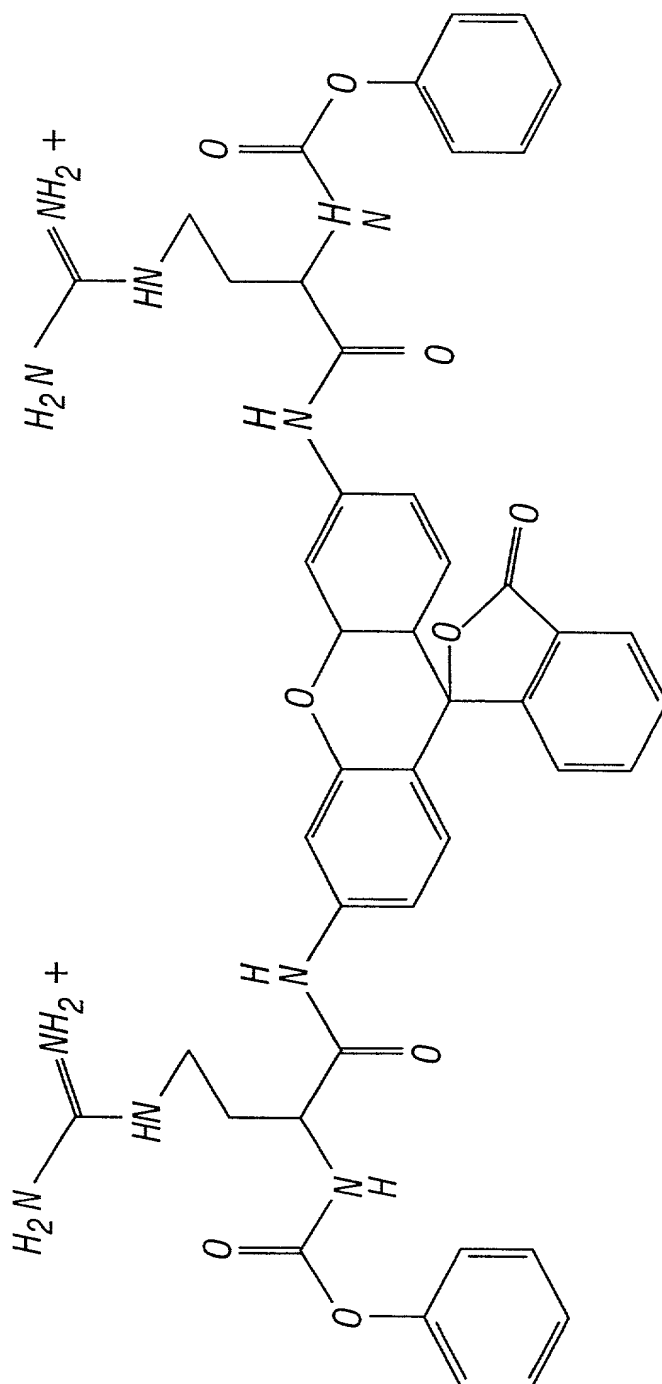


FIG. 10

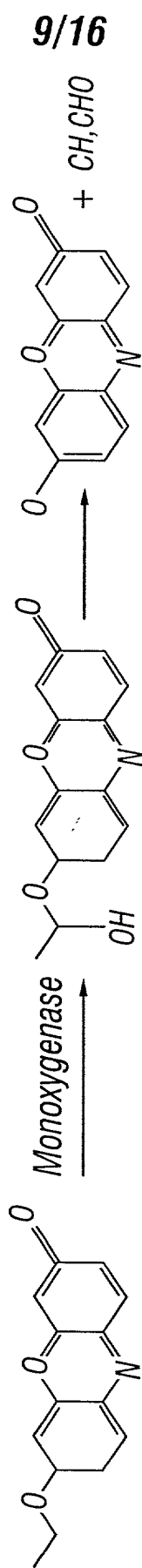


FIG. 11

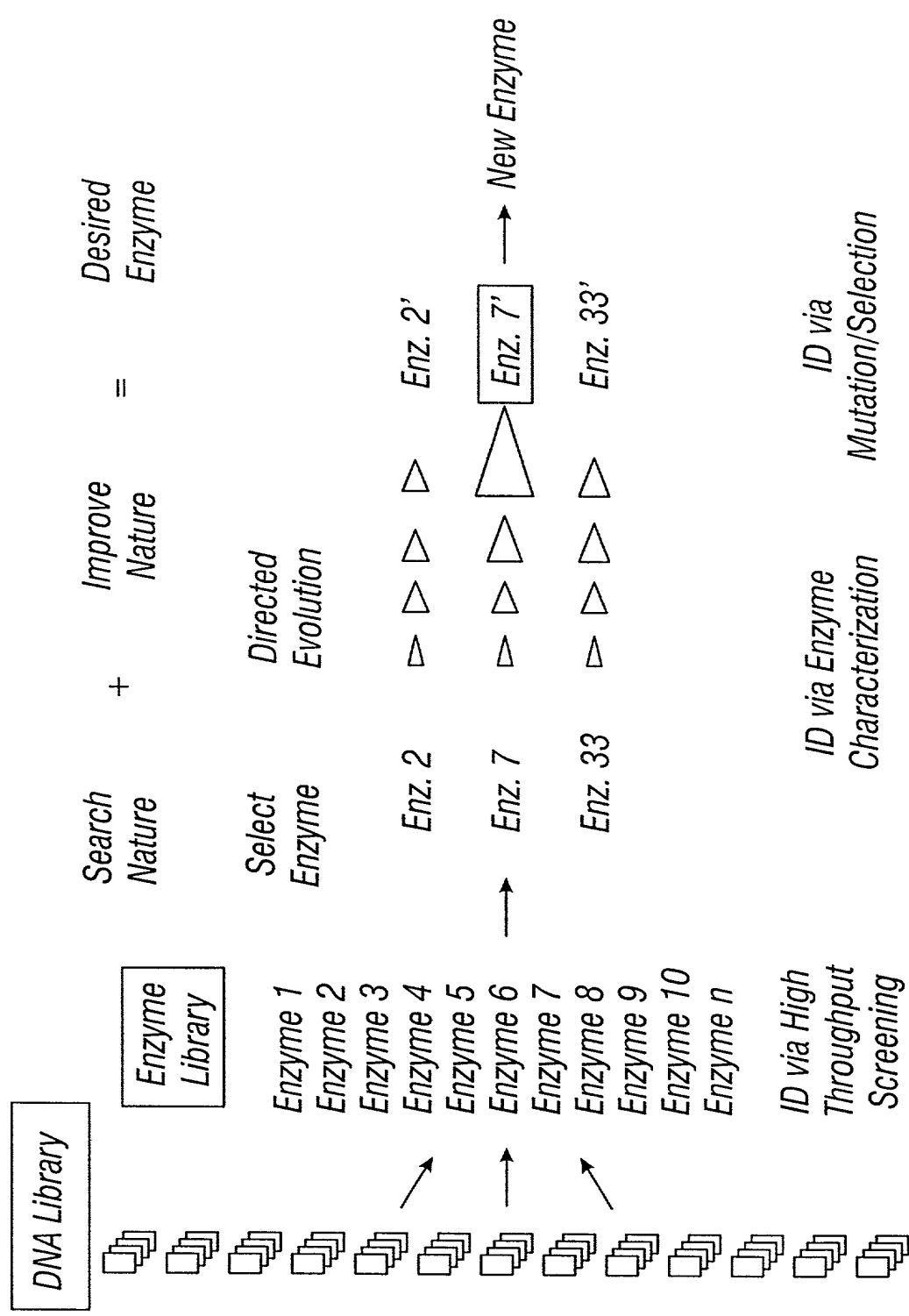


FIG. 12

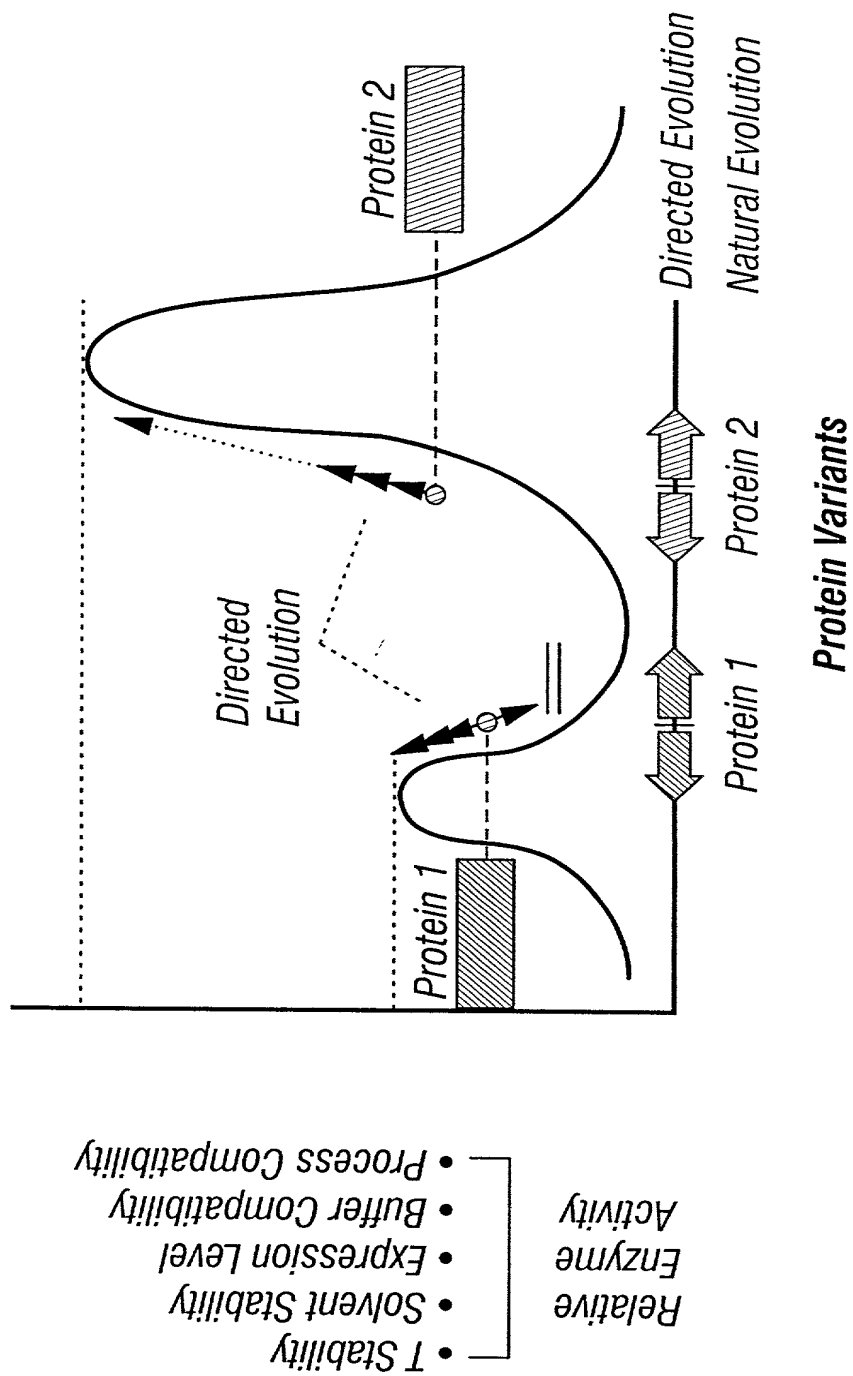


FIG. 13

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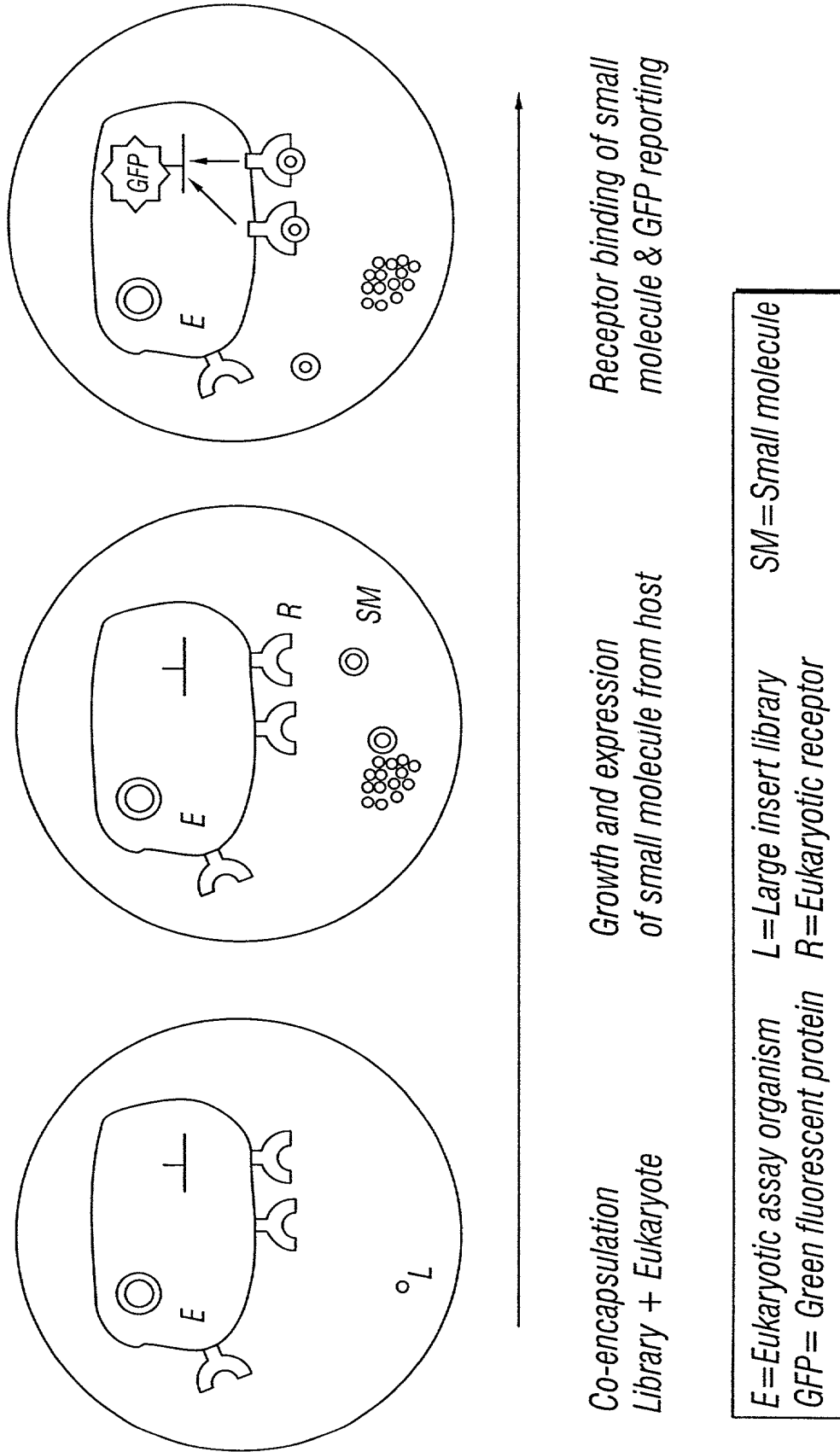


FIG. 14

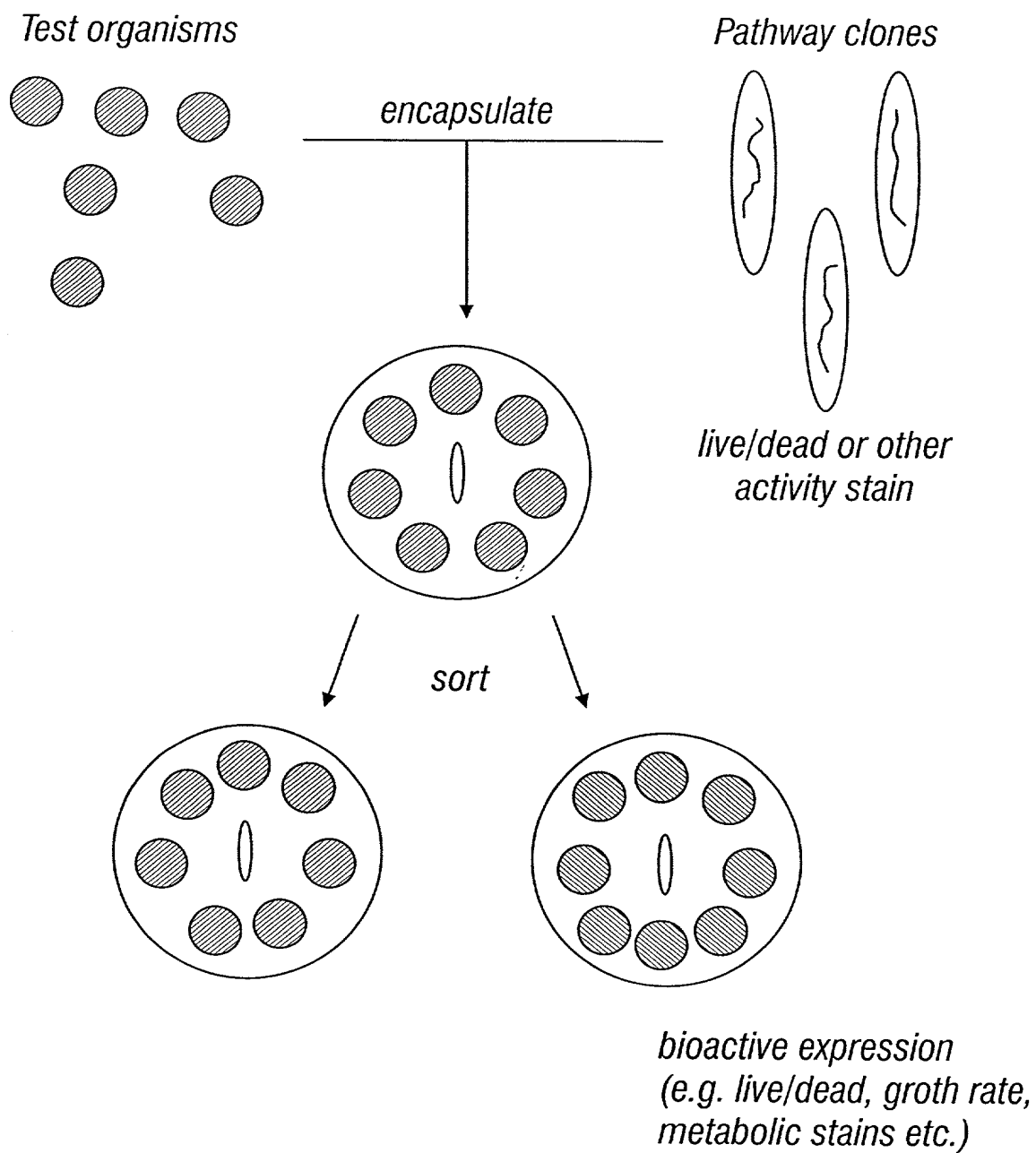
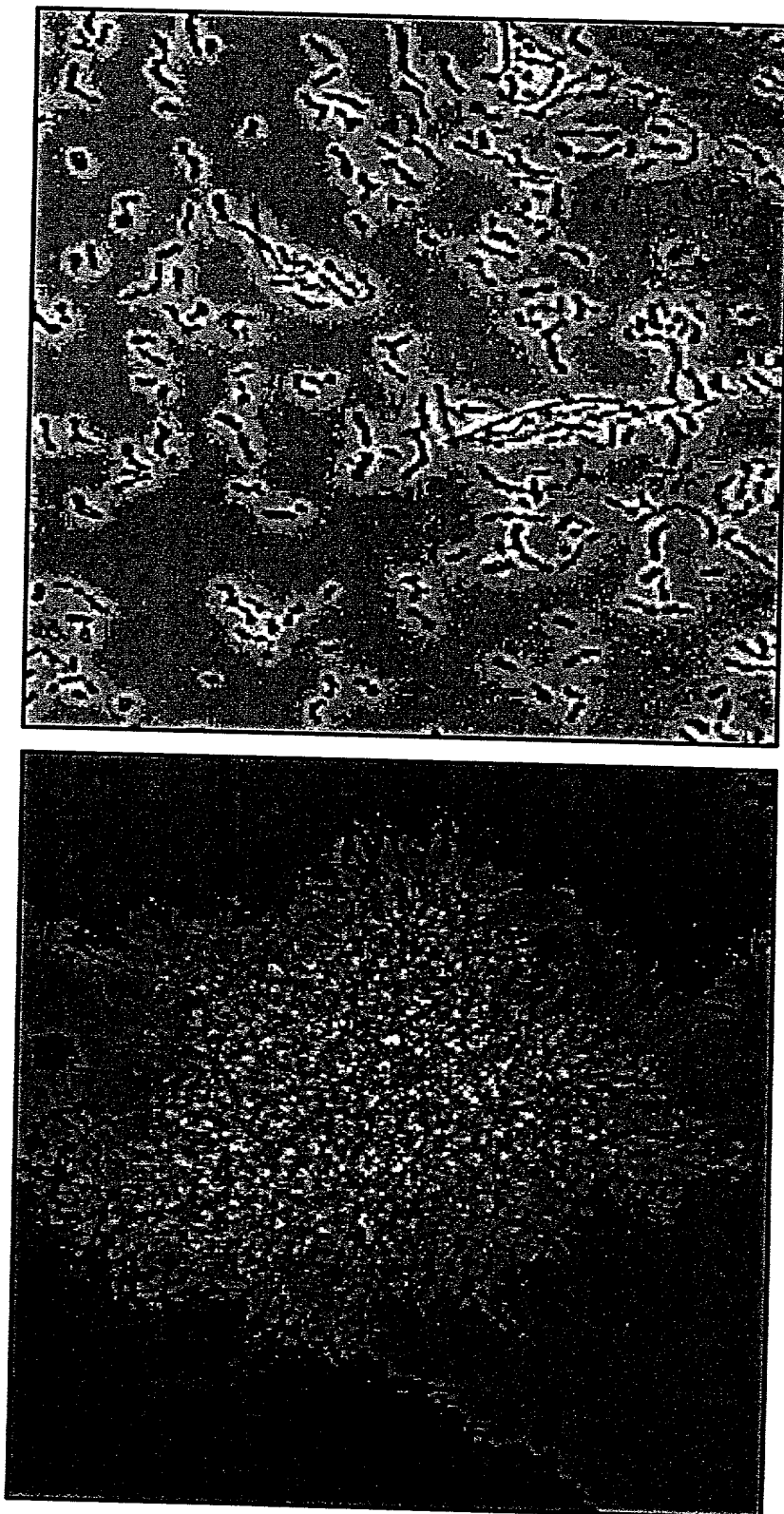


FIG. 15



Streptomyces lividans
mycelia

Streptomyces "diversus"
Unicells

FIG. 16

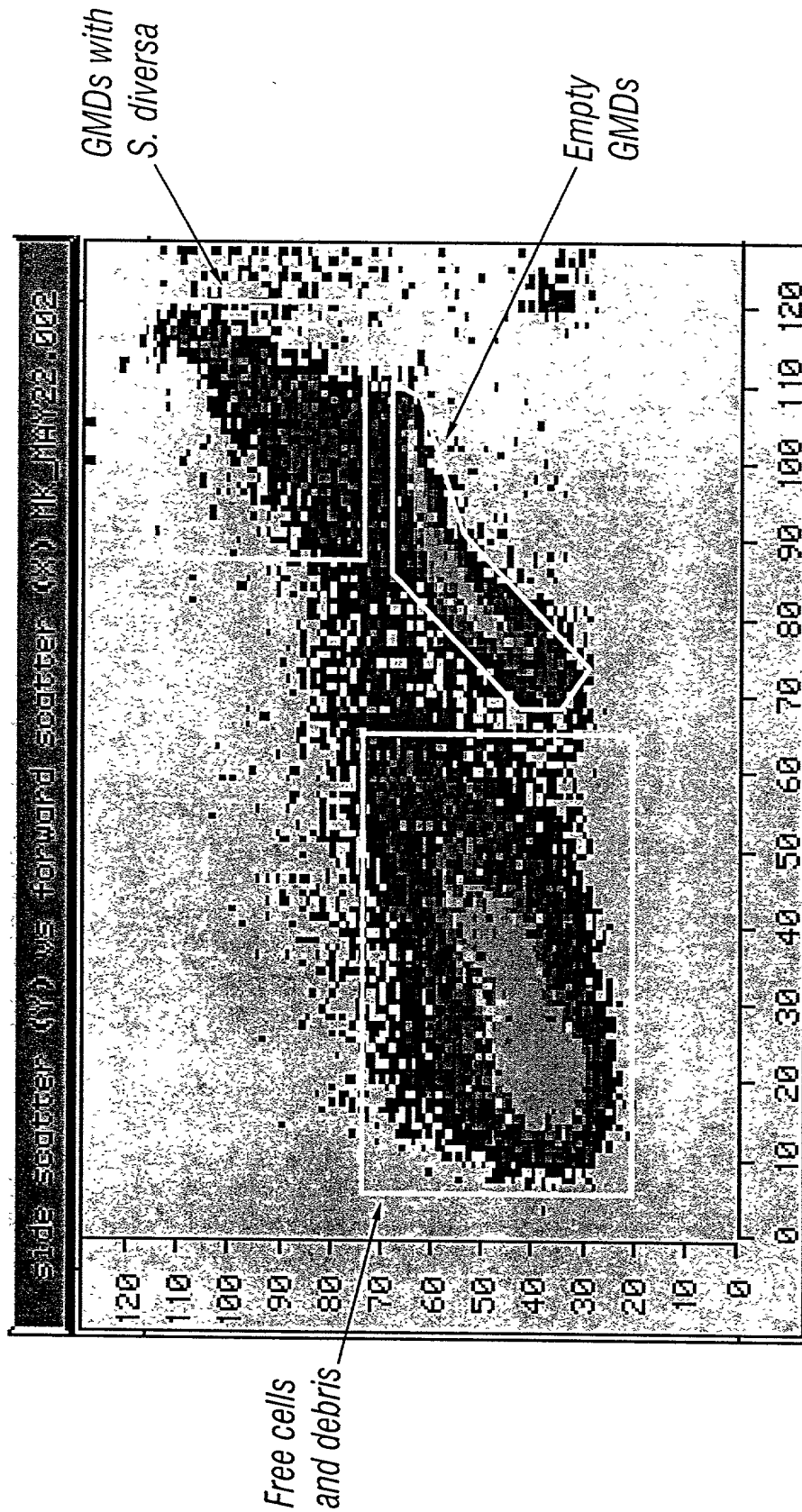


FIG. 17

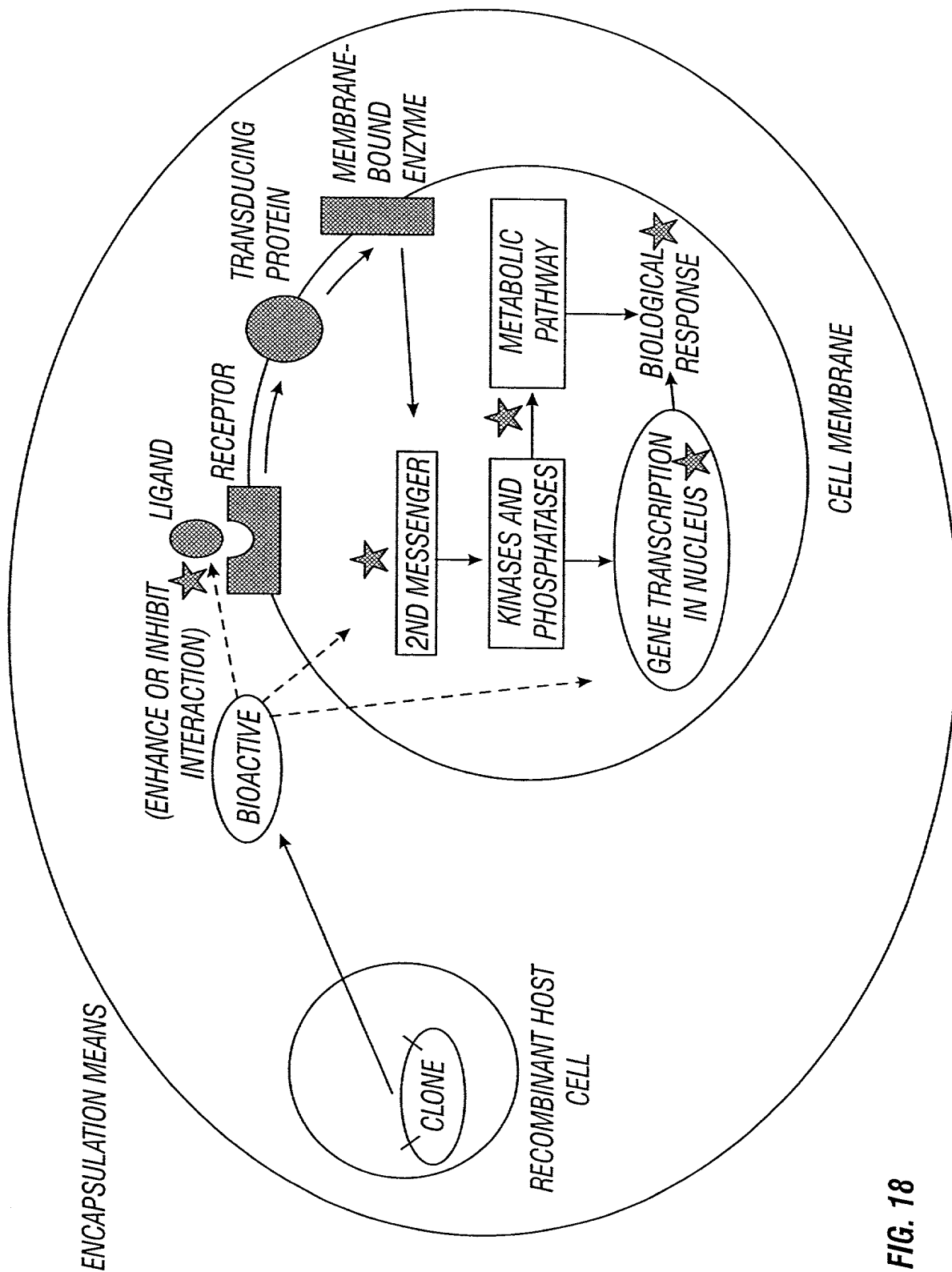


FIG. 18